Diabetic Medicine
Journal of the British Diabetic Association

Contents Volume 15 Numbers 1–12

January 1998 Number 1

DM Diary 5

Guest Editorial
The Elusive Diagnosis of Gestational Diabetes *A. Dornhorst, S. P. Chan* 7

Reviews
Maturity-onset Diabetes of the Young: a Clinical History *R. B. Tattersall* 11
Maturity-onset Diabetes of the Young: Clinical Heterogeneity Explained by Genetic Heterogeneity *A. T. Hattersley* 15

Original Articles
Gestational 'Impaired Glucose Tolerance': Should the Cut-off be Raised to 9 mmol l^{-1}? *T. T. Lao, C. P. Lee* 25
Quantitative EEG during Controlled Hypoglycaemia in Diabetic and Non-diabetic Children *M. Bjørgaas, T. Sand, T. Vik, R. Jorde* 30
Coeliac Disease in Children and Adolescents with IDDM: Clinical Characteristics and Response to Gluten-free Diet *C. L. Acerini, M. L. Ahmed, K. M. Ross, P. B. Sullivan, G. Bird, D. B. Dunger* 38
Determinants of Specific Serum Insulin Concentrations in a General Caucasian Population aged 50 to 74 years (the Hoorn Study) *J. M. Mooy, P. A. Grootenhuis, H. de Vries, L. M. Bouter, P. J. Kostense, R. J. Heine* 45
Mortality and Morbidity from Diabetes in South Asians and Europeans: 11-Year Follow-up of the Southall Diabetes Survey, London, UK *H. M. Mather, N. Chaturvedi, J. H. Fuller* 53
Rate of Decline in Renal Function in Indo-Asians and Whites with Diabetic Nephropathy *N. P. Koppiker, J. Feehally, N. Raymond, K. R. Abrams, A. C. Burden* 60
Randomized Clinical Trial of Lifestyle Interventions in Pima Indians: a Pilot Study *K. M. V. Narayan, M. Hoskin, D. Kozak, A. M. Kriska, R. L. Hanson, D. J. Pettitt, D. K. Nagi, P. H. Bennett, W. C. Knowler* 66
An Intensive Weight Loss Programme in Established Type 2 Diabetes and Controls: Effects on Weight and Atherosclerosis Risk Factors at 1 Year *R. B. Paisey, P. Harvey, S. Rice, I. Belka, L. Bower, M. Dunn, P. Taylor, R. M. Paisey, J. Frost, I. Ash* 73

Clinical Practice
Evaluation of a Diabetic Foot Screening and Protection Programme *C. J. McCabe, R. C. Stevenson, A. M. Dolan* 80

Letters
Commercially Sponsored Supplements *M. Berger* 85
Strategy for Arterial Risk Assessment and Management in Type 2 Diabetes Mellitus *C. Johnston* 85

Statistical Guidelines 87

February 1998 Number 2

DM Diary 94

Guest Editorial
Pregnancy in Diabetes: Success or Failure? *P. J. Watkins* 95

Review
Pathophysiology and Treatment of Diabetic Neuropathy *A. Dejgaard* 97

ISSN 0742-3071
DIMEEV 15(1–12) 1–1086 (1998)

VOLUME CONTENTS

Original Articles

Autoantibodies to Glutamic Acid Decarboxylase and Phenotypic Features Associated with Early Insulin Treatment in Individuals with Adult-onset Diabetes Mellitus *A. R. G. Humphrey, D. J. McCarty, I. R. Mackay, M. J. Rowley, T. Dwyer, P. Zimmet* 113

Delayed Gastric Emptying Occurs Following Acarbose Administration and is a Further Mechanism for its Anti-hyperglycaemic Effect *L. Ranganath, F. Norris, L. Morgan, J. Wright, V. Marks* 120

Bioelectrical Impedance Analysis (BIA) using Bipolar Foot Electrodes in the Assessment of Body Composition in Type 2 Diabetes Mellitus *E. Y. Tsui, X. J. Gao, B. Zinman* 125

Associations of Body Composition with Type 2 Diabetes Mellitus *T. S. Han, E. M. Feskens, M. E. J. Lean, J. C. Seidell* 129

A Pilot Urban Church-based Programme to Reduce Risk Factors for Diabetes Among Western Samoans in New Zealand *D. Simmons, C. Fleming, J. Voyle, F. Fou, S. Feo, B. Gatland* 136

Pupillary Dilatation and Driving in Diabetic Patients *E. B. Jude, B. Ryan, B. M. O'Leary, J. M. Gibson, P. M. Dodson* 143

Screening for Thyroid Dysfunction in a Community Population of Diabetic Patients *M. J. Smithson, P. Perros* 148

Glycaemic Control and Development of Retinopathy in Type 2 Diabetes Mellitus: A Longitudinal Study *P.-J. Guillausseau, P. Massin, M.-A. Charles, H. Allaguy, Z. Güvenli, M. Virally, D. Tielmans, M. Assayag, A. Warnet, J. Lubetzki* 151

Antibodies to Pancreatic Islet Cell Antigens in Diabetes Seen in Southern India with Particular Reference to Fibrocalculous Pancreatic Diabetes *V. Mohan, R. Deepa, E. Bhatia, A. K. Singh, G. A. Hitman, P. Z. Zimmet, I. R. MacKay* 156

Short Report

Type 1 Diabetes Mellitus and Down's Syndrome: Prevalence, Management and Diabetic Complications *A. J. Anwar, J. D. Walker, B. M. Frier* 160

International Scene

A High Prevalence of Diabetes Mellitus and Impaired Glucose Tolerance in the Danagla Community in Northern Sudan *M. N. Elbagir, M. A. Eltom, E. A. Elmahadi, I. M. S. Kadam, C. Berne* 164

Clinical Practice

Screening for Diabetic Retinopathy by General Practitioners: Ophthalmoscopy or Retinal Photography as 35 mm Colour Transparencies? *D. R. Owens, R. L. Gibbins, P. A. Lewis, S. Wall, J. C. Allen, R. Morton* 170

Letter

Serum Sialic Acid in South Indian Type 2 Diabetic Patients with Microvascular Complications *V. Vijay, C. Snehalatha, A. Ramachandran, M. Jayaraman* 176

March 1998 — Number 3

DM Diary 182

Diabetes Care 184

Forthcoming Papers 186

Editorial

The Medical Costs of Social Deprivation—Whose Job Is It Anyway? *S. A. Amiel* 187

Review

The Emerging Role of Post-prandial Hyperglycaemic Spikes in the Pathogenesis of Diabetic Complications *A. Ceriello* 188

Original Articles

The Blood Glucose Lowering Effects of Exercise and Glibenclamide in Patients with Type 2 Diabetes Mellitus *U. Gudat, S. Bungert, F. Kemmer and L. Heinemann* 194

Counterregulatory Hormones in Insulin-treated Diabetic Patients Admitted to an Accident and Emergency Department with Hypoglycaemia *A. Hvidberg, N. J. Christensen and J. Hilsted* 199

Social Deprivation and Mortality in Adults with Diabetes Mellitus *N. Robinson, C. E. Lloyd and L. K. Stevens* 205

Low Educational Status is a Risk Factor for Mortality Among Diabetic People *P. M. Nilsson, S.-E. Johansson and J. Sundquist* 213

Size at Birth, Maternal Weight, and Type 2 Diabetes in South India *C. H. D. Fall, C. E. Stein, K. Kumaran, V. Cox, C. Osmond, D. J. P. Barker and C. N. Hales* 220

Peripheral Sensory Nerve Dysfunction in Children and Adolescents with Type 1 Diabetes Mellitus *L. Barkai, P. Kempler, I. Vámosi, K. Lukács, A. Marton and K. Keresztes* 228

Reproducibility and Comparability of Insulin Sensitivity Indices Measured by Stable-label Intravenous Glucose Tolerance Test *R. Hovorka, P. Bannister, D. J. A. Eckland, D. Halliday, D. N. Murley, S. E. Rees and M. A. Young* 234

Short Reports

Human Insulin Analogue (LYS(B28), PRO(B29)]: The Ideal Pump Insulin? *S. Schmauß, A. König and R. Landgraf* 247

A Comparison of Digital Retinal Images and 35 mm Colour Transparencies in Detecting and Grading Diabetic Retinopathy *L. D. George, M. Halliwell, R. Hill, S. J. Aldington, J. Lusty, F. Dunstan and D. R. Owens* 250

Instant Electronic Imaging Systems are Superior to Polaroid at Detecting Sight-threatening Diabetic Retinopathy *R. E. J. Ryder, N. Kong, A. S. Bates, J. Sim, J. Welch and E. E. Kritzinger* 254

Case Reports

Central Pontine Myelinolysis and Ataxia: an Unusual Manifestation of Hypoglycaemia *S. M. Rajbhandari, T. Powell, G. A. B. Davies-Jones and J. D. Ward* 259

Use of a Prostacyclin Analogue in Cholesterol Crystal Embolism *A. Radauceanu, A. Avignon, J. Ribstein and L. Monnier* 262

Book Review

Clinical Research in Diabetes and Obesity *Reviewed by M. L. Evans* 264

April 1998 — Number 4

DM Diary 270

Diabetes Care 272

Forthcoming Papers 274

Guest Editorial

Diabetes Mellitus and Myocardial Infarction: a Time to Act or a Time to Wait? *B. M. Fisher* 275

Original Articles

Managing the Diabetic Patient with Acute Myocardial Infarction *J. S. Yudkin* 276

Which Drugs Benefit Diabetic Patients for Secondary Prevention of Myocardial Infarction? *T. M. MacDonald, R. Butler, R. W. Newton and A. D. Morris* 282

Beta-cell Deterioration Determines the Onset and Rate of Progression of Secondary Dietary Failure in Type 2 Diabetes Mellitus: the 10-year Follow-up of the Belfast Diet Study *J. Levy, A. B. Atkinson, P. M. Bell, D. R. McCance and D. R. Hadden* 290

UKPDS 26: Sulphonylurea Failure in Non-insulin-dependent Diabetic Patients over Six Years *D. R. Matthews, C. A. Cull, I. M. Stratton, R. R. Holman and R. C. Turner* 297

Glycaemic Control and Cardiovascular Risk Factors in Type 2 Diabetes: a Population-based Study *G. Bruno, P. Cavello-Perin, G. Bargero, M. Borra, N. D'Errico and G. Pagano* 304

Rate and Mode of Death during Five Years of Follow-up among Patients with Acute Chest Pain with and without a History of Diabetes Mellitus *J. Herlitz, B. W. Karlson, J. Lindqvist and M. Sjölin* 308

Polymorphisms of Platelet Glycoproteins in Relation to Macrovascular Disease in Type 2 Diabetes Mellitus *A. M. Carter, M. W. Mansfield and P. J. Grant* ... 315

Enhancement of Soluble CD23 Serum Levels and Cell-surface CD23-Expression in Subjects at Increased Risk of Type 1 Diabetes Mellitus and in Diabetic Patients *M. A. Avanzini, L. Vitali, G. d'Annunzio, M. De Amici, C. Strigazzi, A. Alibrandi and R. Lorini* 320

NEFA Elevation during a Hyperglycaemic Clamp Enhances Insulin Secretion *S. M. Chalkley, E. W. Kraegen, S. M. Furler, L. V. Campbell and D. J. Chisholm* 327

International Scene

Prevalence of Diabetes Mellitus and Associated Cardiovascular Risk Factors in an Adult Urban Population in Paraguay *J. T. Jimenez, M. Palacios, F. Cañete, L. A. Barriocanal, U. Medina, R. Figueredo, S. Martinez, M. V. de Melgarejo, S. Weik, R. Kiefer, K. G. M. M. Alberti and R. Moreno-Azorero* 334

Clinical Practice

Factors Associated with Clinic Non-attendance in Adults with Type 1 Diabetes Mellitus *P. H. Dyer, C. E. Lloyd, R. J. Lancashire, S. C. Bain and A. H. Barnett* 339

Conference Report

Mobile Retinal Screening in Britain *R. Taylor, D. M. Broadbent, R. Greenwood, D. Hepburn, D. R. Owens and H. Simpson* 344

Letters

Diabetic Ketoacidosis in Children *P. Daggett* 348

Diabetic Ketoacidosis in Children: Authors' Reply *V. V. Khadilkar, F. J. Cameron, K. C. Hawkins and R. C. Tasker* 348

VOLUME CONTENTS

Myocardial Infarction on a 17-year-old Diabetic Adolescent *C. S. Bartsocas, C. Kassiou and C. Dafogianni* 349

Book Review **Childhood and Adolescent Diabetes** *Reviewed by R. M. Ayling* 350

May 1998 — Number 5

DM Diary 356

Diabetes Care 358

Guest Editorial **Lipids and Diabetes: a Fatal Combination?** *K. G. M. M. Alberti* 359

Review **Role of Non-esterified Fatty Acids in the Pathogenesis of Type 2 Diabetes Mellitus** *C. Paolisso, B. V. Howard* 360

Original Articles ***Cryptolepis sanguinolenta:* an Ethnobotanical Approach to Drug Discovery and the Isolation of a Potentially Useful New Antihyperglycaemic Agent** *J. Luo, D. M. Fort, T. J. Carlson, B. K. Noamesi, D. nii-Amon-Kotei, S. R. King, J. Tsai, J. Quan, C. Hobensack, P. Lapresca, N. Waldeck, C. D. Mendez, S. D. Jolad, D. E. Bierer, G. M. Reaven* 367

Atrial Natriuretic Peptide in Type 2 Diabetes Mellitus: Response to a Physiological Mixed Meal and Relationship to Renal Function *P. D. Chattington, J. V. Anderson, L. H. Rees, G. P. Leese, J. R. Peters, J. P. Vora* 375

Reducing Lipid Peroxidation Stress of Erythrocyte Membrane by α-tocopherol Nicotinate Plays an Important Role in Improving Blood Rheological Properties in Type 2 Diabetic Patients with Retinopathy *T. Chung, J. J. Hau Yu, D.-Z. Liu* 380

Lipid But Not Glycaemic Parameters Predict Total Mortality from Type 2 Diabetes Mellitus in Canterbury, New Zealand *C. M. Florkowski, R. S. Scott, C. L. Moir, P. J. Graham* 386

Carbohydrate Malabsorption Following Acarbose Administration *H. Sobajima, M. Mori, T. Niwa, M. Muramatsu, Y. Sugimoto, K. Kato, S. Naruse, T. Kondo, T. Hayakawa* 393

Perceived Symptoms of Hypoglycaemia in Elderly Type 2 Diabetic Patients Treated with Insulin *A. J. Jaap, G. C. Jones, R. J. McCrimmon, I. J. Deary, B. M. Frier* 398

Autonomic Function in Children with Type 1 Diabetes Mellitus *H. Tanaka, L. Hyllienmark, O. Thulesius, T. Brismar, J. Ludvigsson, M. O. Ericson, L.-E. Lindblad, H. Tamai* 402

Conservative Surgical Approach Versus Non-surgical Management for Diabetic Neuropathic Foot Ulcers: a Randomized Trial *A. Piaggesi, E. Schipani, F. Campi, M. Romanelli, F. Baccetti, C. Arvia, R. Navalesi* 412

Parental History of Hypertension and Parental History of Diabetes and Microvascular Complications in Insulin-dependent Diabetes Mellitus: the EURODIAB IDDM Complications Study *G. Roglic, H. M. Colhoun, L. K. Stevens, H. H. Lemkes, C. Manes, J. H. Fuller* 418

Short Report **Dobutamine Stress Echocardiography: False Positive Scans in Proteinuric Patients with Type 1 Diabetes Mellitus at High Risk of Ischaemic Heart Disease** *M. E. Griffin, K. Nikookam, M. M. Teh, H. McCann, N. M. O'Meara, R. G. Firth* 427

Case Reports **Onset of Type 1 Diabetes Mellitus in Infancy after Enterovirus Infections** *M. Lönnrot, M. Knip, M. Roivainen, P. Koskela, H. K. Åkerblom, H. Hyöty* 431

Hyperglycaemia due to Insulin Resistance Caused by Interferon-γ *T. Shiba, N. Higashi, Y. Nishimura* 435

Erratum 437

June 1998 — Number 6

DM Diary 444

Diabetes Care 446

Guest Editorial

The Demand and Financial Cost of Hospital Care for Diabetes Mellitus and its Related Complications *C. J. Currie, J. R. Peters* 449

History of Diabetes

Seventy-five Years Ago: Insulin Treatment in Hereford General Hospital *H. Connor, C. J. C. Renton* 452

Original Articles

Immunochemical Quantification of Crossline as a Fluorescent Advanced Glycation Endproduct in Erythrocyte Membrane Proteins from Diabetic Patients With or Without Retinopathy *M. Yamaguchi, N. Nakamura, K. Nakano, Y. Kitagawa, H. Shigeta, G. Hasegawa, K. Ienaga, K. Nakamura, Y. Nakazawa, I. Fukui, H. Obayashi, M. Kondo* 458

Impaired Vasoconstriction of Peripheral Cutaneous Blood Flow in Type 1 Diabetic Patients Following Food Ingestion *M. Rossi, K. Lall, N. Standfield, A. Dornhorst* 463

Evidence for Specific Autoimmunity Against Sympathetic and Parasympathetic Nervous Tissues in Type 1 Diabetes Mellitus and the Relation to Cardiac Autonomic Dysfunction *D. Muhr-Becker, A. G. Ziegler, A. Druschky, G. Wolfram, M. Haslbeck, B. Neundörfer, E. Standl, O. Schnell* 467

Serum Sex-hormone-binding Globulin is Related to Hepatic and Peripheral Insulin Sensitivity But Not to Beta-cell Function in Men and Women With Type 2 Diabetes Mellitus *I. Laing, A. O. Olukoga, C. Gordon, A. J. M. Boulton* 473

Plasma Leptin Is Not Associated With Insulin Resistance and Proinsulin in Non-diabetic South Asian Indians *C. Snehalatha, A. Ramachandran, K. Satyavani, V. Vijay, S. M. Haffner* 480

Prolonged and Enhanced Secretion of Glucagon-like Peptide 1 (7-36 Amide) After Oral Sucrose Due to α-Glucosidase Inhibition (Acarbose) in Type 2 Diabetic Patients *C. Seifarth, J. Bergmann, J. J. Holst, R. Ritzel, W. Schmiegel, M. A. Nauck* 485

Documented Symptomatic Hypoglycaemia in Children and Adolescents Using Multiple Daily Insulin Injection Therapy *S. Tupola, J. Rajantie* 492

The Comparison of Four Weight Reduction Strategies Aimed at Overweight Patients with Diabetes Mellitus: Four-year Follow-up *R. M. Manning, R. T. Jung, G. P. Leese, R. W. Newton* 497

Oral Magnesium Supplementation in Insulin-requiring Type 2 Diabetic Patients *H. W. de Valk, R. Verkaaik, H. J. M. van Rijn, R. A. Geerdink and A. Struyvenberg* 503

Special Report

Guidelines for the Diagnosis and Outpatient Management of Diabetic Peripheral Neuropathy *A. J. M. Boulton, F. A. Gries, J. A. Jervell* 508

Case Reports

Simultaneous Onset of Type 1 Diabetes Mellitus in Identical Infant Twins with Enterovirus Infection *C. P. Smith, G. B. Clements, M. H. Riding, P. Collins, G. F. Bottazzo, K. W. Taylor* 515

Running Shoes for Relief of Plantar Pressure in Diabetic Patients *T. Kästenbauer, G. Sokol, M. Auinger, K. Irsigler* 518

Book Reviews

Lipids and the Kidney: Contributions to Nephrology *Reviewed by S. M. Marshall* 523

The Economics of Diabetes and Diabetes Care *Reviewed by C. J. Currie* 523

Letters

Long-term ACE Inhibitor Therapy in Diabetic Nephropathy: Potential Hazard? *N. N. Chan, M. D. Feher* 524

Radio Emissions and Accutrend® Malfunction *B. Mueller, P. Diem* 524

Radio Emissions and Accutrend Malfunction: Reply *I. Parfrement* 524

Do Radio Emissions Cause Accutrend to Malfunction? *P. De Caluwé, D. Bandau* 525

July 1998 **Number 7**

DM Diary 532

Editorials

New Diagnostic Criteria and Classification of Diabetes—Again? *K. G. M. M. Alberti, P. Z. Zimmet* 535

Learning to Use a New Drug—the Fast-acting Insulin Analogues *S. A. Amiel* .. 537

Special Report

Definition, Diagnosis and Classification of Diabetes Mellitus and its Complications. Part 1: Diagnosis and Classification of Diabetes Mellitus. Provisional Report of a WHO Consultation *K. G. M. M. Alberti, P. Z. Zimmet for the WHO Consultation* 539

VOLUME CONTENTS

Original Articles

Comparison of the Current WHO and New ADA Criteria for the Diagnosis of Diabetes Mellitus in Three Ethnic Groups in the UK *N. Unwin, K. G. M. M. Alberti, R. Bhopal, J. Harland, W. Watson, M. White* 554

The Relative Merits of Haemoglobin A_{1c} and Fasting Plasma Glucose as First-line Diagnostic Tests for Diabetes Mellitus in Non-pregnant Subjects *K. Wiener, N. B. Roberts* 558

A Population-based Study of the Prevalence and Associated Factors of Diabetes Mellitus in Southern Taiwan *F.-H. Lu, Y.-C. Yang, J.-S. Wu, C.-H. Wu, C.-J. Chang* 564

Glycated Haemoglobin and Cardiovascular Risk Factors in Chinese Subjects with Normal Glucose Tolerance *G. T. C. Ko, J. C. N. Chan, J. Woo, E. Lau, V. T. F. Yeung, C.-C. Chow, J. K. Y. Li, W.-Y. So, W.-B. Chan, C. S. Cockram* 573

Reduced Nerve Blood Flow in Diabetic Rats: Relationship to Nitric Oxide Production and Inhibition of Aldose Reductase *D. R. Tomlinson, M. Dewhurst, E. J. Stevens, N. Omawari, A. L. Carrington, P. A. Vo* 579

Diverging Evolution of Anti-GAD and Anti-IA-2 Antibodies in Long-standing Diabetes Mellitus as a Function of Age at Onset: No Association with Complications *L. Hermitte, C. Atlan-Gepner, C. Mattei, D. Dufayet, M. F. Jannot, M. A. Christofilis, S. Nervi, B. Vialettes* 586

Use of the Short-acting Insulin Analogue Lispro in Intensive Treatment of Type 1 Diabetes Mellitus: Importance of Appropriate Replacement of Basal Insulin and Time-interval Injection-meal *P. Del Sindaco, M. Ciofetta, C. Lalli, G. Perriello, S. Pampanelli, E. Torlone, P. Brunetti, G. B. Bolli*..... 592

Reducing Snacks When Switching from Conventional Soluble to Lispro Insulin Treatment: Effects on Glycaemic Control and Hypoglycaemia *T. Rönnemaa, J. Viikari* 601

Long-term Administration of Theophylline and Glucose Recovery After Hypoglycaemia in Patients with Type 1 Diabetes Mellitus *A. Hvidberg, A. Rosenfalck, N. J. Christensen, J. Hilsted* 608

Short Report

Use of the Semmes-Weinstein 5.07/10 Gram Monofilament: the Long and the Short of it *M. McGill, L. Molyneaux, D. K. Yue* 615

Book Reviews

Measuring the Health Outcomes of Diabetes Care *Reviewed by S. C. A. Fraser* 618

The Insulinotropic Gut Hormone Glucagon-like Peptide-1 *Reviewed by D. F. C. Hopkins*..... 618

Letters

Diabetes—What's in a Name? *D. Kerr, D. A. Cavan, J. Everett* 619

Spouse's Worries Concerning Diabetic Partner's Possible Hypoglycaemia *M. Stahl, W. Berger, H. Schaechinger, D. J. Cox* 619

Panhypopituitarism, Neurosensory Deafness and Noonan's Syndrome in a Child of a Diabetic Mother: Role of Maternal Hypoglycaemia during Pregnancy in Induction of Congenital Lesions *C.-J. Törnhage, F. Lithner, U. J. Eriksson* 620

Diabetic Muscle Infarction: a Difficult Diagnosis Suggested by Magnetic Resonance Imaging *F. Heureux, J.-F. Nisolle, E. Delgrange, J. Donckier*..... 621

August 1998 — Number 8

Diabetes Care 628

DM Diary 630

Guest Editorial

Hormone Replacement Therapy in Type 2 Diabetes Mellitus: a Cardiovascular Perspective *N. Sattar, A. C. MacCuish, A. J. Jaap* 631

Review

Endothelial Integrity, Soluble Adhesion Molecules and Platelet Markers in Type 1 Diabetes Mellitus *A. D. Blann, G. Y. H. Lip*..... 634

Special Articles

British Diabetic Association Guidelines on Genetic and Immune Screening for Type 1 Diabetes Mellitus *Professional Advisory Committee: L. Avery, D. Q. Borsey, S. A. Greene, I. Gummerson, R. Hayes, D. Kerr, M. E. J. Lean, S. M. Marshall, A. McInnes, M. Pierce, J. Roland, A. J. Sinclair, J. Tadman, A. Walton, P. Wiles* 643

Would R. D. Lawrence Have Been Interested in the Regulation of Insulin Secretion from Pancreatic B-Cells? *P. M. Jones*..... 644

Original Articles

Effect of Metformin on Bile Salt Circulation and Intestinal Motility in Type 2 Diabetes Mellitus *J. H. B. Scarpello, E. Hodgson, H. C. S. Howlett*..... 651

Long-term Effectiveness of a New α-Glucosidase Inhibitor (BAY m1099-Miglitol) in Insulin-treated Type 2 Diabetes Mellitus *A. Mitrakou, N. Tountas, A. E. Raptis, R. J. Bauer, H. Schulz, S. A. Raptis* 657

Relationship Between Circulating Vascular Cell Adhesion Molecule-1 and Microvascular Complications in Type 2 Diabetes Mellitus *M. Koga, M. Otsuki, M. Kubo, J. Hashimoto, S. Kasayama* 661

Reduction of Activity, but no Decrease in Concentration, of Erythrocyte Cu,Zn-superoxide Dismutase by Hyperglycaemia in Diabetic Patients *M. Kotake, R. Shinohara, K. Kato, N. Hayakawa, R. Hayashi, K. Uchimura, M. Makino, M. Nagata, H. Kakizawa, H. Nakagawa, A. Nagasaka, M. Itoh* 668

Comparison of Prevalence and Risk Factors for Microalbuminuria in South Asians and Europeans with Type 2 Diabetes Mellitus *H. M. Mather, N. Chaturvedi, A. M. Kehely* 672

Atrial Natriuretic Peptide Increases Urinary Albumin Excretion in Men with Type 1 Diabetes Mellitus and Established Microalbuminuria *N. Prasad, P. B. M. Clarkson, T. M. MacDonald, M. Ryan, A. D. Struthers, C. J. Thompson* 678

Does Chronic Smoking Influence Fibrinolytic Potential in Type 1 Diabetes Mellitus? *A. J. Simpson, N. A. Booth, N. R. Moore, R. S. Gray* 683

Fetal Growth and Hyperinsulinaemia in Adult Life *C. N. Martyn, C. N. Hales, D. J. P. Barker and S. Jespersen* 688

Severe Hypoglycaemia in Children and Adolescents During Multiple-dose Insulin Therapy *S. Tupola, J. Rajantie, J. Mäenpää* 695

Technical Report

An Automatic Device for the Assessment of Cardiovascular Autonomic Function *P. J. Weston, G. Bush, T. Johnson, K. Martin, H. Thurston* 700

Book Reviews

Shared Care for Diabetes *Reviewed by D. R. Meeking* 705

Costing Diabetes: The Case for Prevention *Reviewed by J. J. Bending* 705

Letters

Effect of Different Pharmacological Formulations of Gliclazide on Postprandial Hyperglycaemia *G. Bardini, E. Mannucci, C. M. Rotella* 706

Right Lateral Position Reduces Intra-individual Variation during Oral Glucose Tolerance Tests *M. Sanaka, Y. Kuyama, M. Yamanaka* 706

Commercially Sponsored Supplements *M. Hanefeld, T. Temelkova-Kurktschiev* 707

Erratum 709

September 1998 — Number 9

Diabetes Care 716

DM Diary 718

Guest Editorial

Screening for Diabetic Retinopathy in the 21st Century *R. E. J. Ryder* 721

Review

Autoimmunity in Diabetic Autonomic Neuropathy: Does the Immune System Get On Your Nerves? *N. T. Ejskjaer, M. M. Zanone, M. Peakman* 723

Original Articles

Cow's Milk Consumption, Disease-Associated Autoantibodies and Type 1 Diabetes Mellitus: a Follow-up Study in Siblings of Diabetic Children *S. M. Virtanen, E. Hyppönen, E. Läärä, P. Vähäsalo, P. Kulmala, K. Savola, L. Räsänen, A. Aro, M. Knip, H. K. Åkerblom, and the Childhood Diabetes in Finland Study Group* 730

Effect of Pancreas Transplantation and Immunosuppression on Proinsulin Secretion *E. Christiansen, M. Røder, A. Tibell, C. N. Hales, S. Madsbad* 739

Intramuscular versus Subcutaneous Injection of Soluble and Lispro Insulin: Comparison of Metabolic Effects in Healthy Subjects *K. Rave, T. Heise, C. Weyer, J. Herrnberger, R. Bender, S. Hirschberger, L. Heinemann* 747

Insulin Management and Metabolic Control of Type 1 Diabetes Mellitus in Childhood and Adolescence in 18 Countries *H. B. Mortensen, K. J. Robertson, H.-J. Aanstoot, T. Danne, R. W. Holl, P. Hougaard, J. A. Atchison, F. Chiarelli, D. Daneman, B. Dinesen, H. Dorchy, P. Garandeau, S. Greene, H. Hoey, E. A. Kaprio, M. Kocova, P. Martul, N. Matsuura, E. J. Schoenle, O. Søvik, P. G. F. Swift, R. M. Tsou, M. Vanelli, J. Åman, for the Hvidøre Study Group on Childhood Diabetes* 752

Problem of Amputations in Patients with Newly Diagnosed Diabetes Mellitus *J. P. New, D. McDowell, E. Burns, R. J. Young* 760

Outcome on Diabetic Foot Complications in Relation to Clinical Examination and Quantitative Sensory Testing: a Case-control Study *D. V. Coppini, P. J. Young, C. Weng, A. F. Macleod, P. H. Sönksen* 765

Troglitazone, an Insulin Action Enhancer, Improves Glycaemic Control and Insulin Sensitivity in Elderly Type 2 Diabetic Patients *S. Kumar, A. Prange, J. Schulze, S. Lettis, A. H. Barnett* 772

VOLUME CONTENTS

Short Reports

Survey of Diabetic Retinopathy Screening Services in England and Wales *P. Bagga, D. Verma, C. Walton, E. A. Masson, D. A. Hepburn* 780

Screening for Diabetic Retinopathy: the Utility of Nonmydriatic Retinal Photography in Egyptian Adults *A. D. Penman, J. B. Saaddine, M. Hegazy, E. S. Sous, M. A. Ali, R. J. Brechner, W. H. Herman, M. M. Engelgau, R. Klein* ... 783

Case Report

High Glucose Uptake by Adipocytes in a Type 1 Diabetic Patient with a Partial 'Honeymoon' Period *F. Arrieta-Blanco, N. Pulido, A. Suarez, B. Casanova, F. Ramos, J. L. Herrera-Pombo, A. Rovira* 788

International Scene

Access to Diabetes Treatment in Northern Ethiopia *S. Alemu, V. J. Watkins, W. Dodds, J. B. Turowska, P. J. Watkins* 791

Meeting Report

16th Anglo–Danish–Dutch Diabetes Group Meeting *D. R. Meeking, O. Herlihy* 795

Book Review

Advances of Diabetes Mellitus in East Asia *Reviewed by D. J. McCarty* 796

Letters

Antibodies to GAD in Diabetic Patients with Chronic Hepatitis C *H. Ando, Y. Nagai, M. Yokoyama, T. Takamura, K. Kobayashi* 797

A Combined Treatment for Severe Diabetic Neuropathy Symptoms *A. P. Worsley, J. Allawi* 797

Parental Hypertension and Risk of Diabetic Nephropathy *R. Lindsay, J. A. Little, A. J. Jaap, P. L. Padfield, J. D. Walker, K. J. Hardy* 798

October 1998 — Number 10

DM Diary 804

Guest Editorial

Diabetes and Female Sexuality *J. M. Steel* 807

Review

Diabetes Mellitus and Female Sexuality: a Review of 25 Years' Research *P. Enzlin, C. Mathieu, D. Vanderschueren, K. Demyttenaere* 809

Rapid Publication

A Low Renal Threshold for Glucose in Diabetic Patients with a Mutation in the Hepatocyte Nuclear Factor-1α (HNF-1α) Gene *R. Menzel, P. J. Kaisaki, I. Rjasanowski, P. Heinke, W. Kerner, S. Menzel* 816

Original Articles

Sildenafil: Study of a Novel Oral Treatment for Erectile Dysfunction in Diabetic Men *D. E. Price, J. C. Gingell, S. Gepi-Attee, K. Wareham, P. Yates, M. Boolell* 821

Clinical Characterization of Polymorphisms in the Sulphonylurea Receptor 1 Gene in Japanese Subjects with Type 2 Diabetes Mellitus *S. Ishiyama-Shigemoto, K. Yamada, X. Yuan, W. Koyama, K. Nonaka* 826

Five-year Mortality in Elderly French Subjects from the PAQUID Epidemiological Survey: the Burden of Diabetes *I. Bourdel-Marchasson, B. Dubroca, A. Decamps, S. Richard-Harston, J.-P. Emeriau, J.-F. Dartigues* 830

Hypoglycaemic Symptoms Reported by Children with Type 1 Diabetes Mellitus and by Their Parents *L. A. Ross, R. J. McCrimmon, B. M. Frier, C. J. H. Kelnar, I. J. Deary* 836

Parameters Associated with Residual Insulin Secretion During the First Year of Disease in Children and Adolescents with Type 1 Diabetes Mellitus *R. Bonfanti, E. Bazzigaluppi, G. Calori, M. C. Riva, M. Viscardi, E. Bognetti, F. Meschi, E. Bosi, G. Chiumello, E. Bonifacio* 844

Determinants of Carotid Artery Wall Thickening in Young Patients with Type 1 Diabetes Mellitus *D. Frost, W. Beischer* 851

Serious Hand Sepsis and Diabetes Mellitus: Specific Tropical Syndrome with Western Counterparts *C. V. Gill, O. O. Famuyiwa, M. Rolfe, L. K. Archibald* . 858

Unchanged Incidence of Severe Retinopathy in a Population of Type 1 Diabetic Patients with Marked Reduction of Nephropathy *M. Bojestig, H. J. Arnqvist, B. E. Karlberg, J. Ludvigsson* 863

Gemfibrozil Treatment Increases Low-density Lipoprotein Particle Size in Type 2 Diabetes Mellitus but Does Not Alter *in vitro* Oxidizability *D. N. O'Neal, R. C. O'Brien, K. L. Timmins, G. D. Grieve, K.-P. Lau, G. C. Nicholson, M. A. Kotowicz, J. D. Best* 870

Clinical Practice

Beyond Retinal Screening: Digital Imaging in the Assessment and Follow-up of Patients with Diabetic Retinopathy *D. Kerr, D. A. Cavan, B. Jennings, C. Dunnington, D. Gold, M. Crick* 878

Evaluation of the Micral-Test ® S, a Qualitative Immunologic Patient Self-test for Microalbuminuria: the PROSIT Project *W. Piehlmeier, R. Renner, T. Kimmerling, W. Schramm, S. Garbe, R. Proetzsch, J. Fahn, K. Piwernetz, R. Landgraf* 883

November 1998 — Number 11

Diabetes Care 892

DM Diary 894

Guest Editorials
UKPDS: a Message of Hope and a Need for Change *P. J. Watkins* 895
Sildenafil: a Revolutionary Therapy? *S. M. Marshall* 897

Review
Promotion, Prediction and Prevention of Progression of Nephropathy in Type 1 Diabetes Mellitus *P. Rossing* 900

Original Articles
Are European Standard Deviation Targets for Haemoglobin A_{1c} Too Strict? *E. S. Kilpatrick, W. S. Kilpatrick, M. H. Dominiczak, M. Small* 920
Is the Short Insulin Tolerance Test Safe and Reproducible? *C.-C. Chen, T.-Y. Wang, S.-Y. Hsu, R.-H. Chen, C.-T. Chang, S.-J. Chen* 924
Novel Hepatoselective Insulin Analogues: Studies with Covalently Linked Thyroxyl-insulin Complexes *F. Shojaee-Moradie, H. Eckey, N. C. Jackson, A. Schüttler, D. Brandenburg, P. H. Sönksen, R. H. Jones* 928
Normalization of Fasting Glycaemia by Intravenous GLP-1 ([7-36 Amide] or [7-37]) in Type 2 Diabetic Patients *M. A. Nauck, I. Weber, I. Bach, S. Richter, C. Ørskov, J. J. Holst, W. Schmiegel* 937
Does Mitochondrial Genome Mutation in Subjects with Maternally Inherited Diabetes and Deafness Decrease Severity of Diabetic Retinopathy? *D. J. Holmes-Walker, P. Mitchell, S. C. Boyages* 946
Fibrinolytic Measurements in Type 2 Diabetic Patients with Acute Cerebral Infarction *M. W. Mansfield, A. J. Catto, A. M. Carter, P. J. Grant* 953
Personal Barriers to Diabetes Care: Lessons from a Multi-ethnic Community in New Zealand *D. Simmons, T. Weblemoe, J. Voyle, A. Prichard, L. Leakehe, B. Gatland* 958
Cutis/Subcutis Thickness at Insulin Injection Sites and Localization of Simulated Insulin Boluses in Children with Type 1 Diabetes Mellitus: Need for Individualization of Injection Technique? *N. H. Birkebaek, A. Johansen, J. Solvig* 965
Effects of Different Glycaemic Index Foods and Dietary Fibre Intake on Glycaemic Control in Type 1 Diabetic Patients on Intensive Insulin Therapy *L. Lafrance, R. Rabasa-Lhoret, D. Poisson, F. Ducros, J.-L. Chiasson* .. 972

Book Review
International Textbook of Diabetes Mellitus *Reviewed by P. J. Watkins* 979

Letters
Managing the Diabetic Patient with Acute Myocardial Infarction *R. A. Fisken* 980
Managing the Diabetic Patient with Acute Myocardial Infarction: Author's Reply *J. S. Yudkin* 980
The Elusive Diagnosis of Gestational Diabetes *N. W. Oakley* 980

December 1998 — Number 12

Diabetes Care 988

DM Diary 989

Original Articles
Spontaneous Hypoglycaemia After Pancreas Transplantation in Type 1 Diabetes Mellitus *A. Battezzati, D. Bonfatti, S. Benedini, G. Calori, R. Caldara, V. Mazzaferro, A. Elli, A. Secchi, V. Di Carlo, G. Pozza, L. Luzi* 991
Adding Metformin Versus Insulin Dose Increase in Insulin-treated but Poorly Controlled Type 2 Diabetes Mellitus: an Open-label Randomized Trial *F. Relimpio, A. Pumar, F. Losada, M. A. Mangas, D. Acosta, R. Astorga* 997
Reduced Adipocyte Insulin Sensitivity in Caucasian and Asian Subjects with Coronary Heart Disease *G. S. Frost, B. E. Keogh, D. Smith, A. R. Leeds, A. Dornhorst* 1003
Long-term Glycaemic Control Directly Correlates with Glomerular Filtration Rate in Early Type 1 Diabetes Mellitus Before the Onset of Microalbuminuria *C. P. R. Soper, J. L. Barron, S. L. Hyer* 1010
Evidence of an Increasing Prevalence of Diagnosed Diabetes Mellitus in the Poole Area From 1983 to 1996 *W. Gatling, S. Budd, D. Walters, M. A. Mullee, J. R. Goddard, R. D. Hill* 1015
Rapid Gastric Emptying of a Liquid Meal in Long-term Type 2 Diabetes Mellitus *C. Weytjens, B. Keyneulen, C. Van Haleweyn, G. Somers, A. Bossuyt* 1022

1083

VOLUME CONTENTS

Short Reports

Withholding Thrombolysis in Patients with Diabetes Mellitus and Acute Myocardial Infarction *K. Shotliff, R. Kaushal, D. Dove, S. S. Nussey* 1028

Apolipoprotein E Genotype is a Determinant of Low-density Lipoprotein Cholesterol and of its Response to a Low-cholesterol Diet in Type 1 Diabetic Patients with Elevated Urinary Albumin Excretion *E. E. Blaauwwiekel, B. J. Beusekamp, W. J. Sluiter, K. Hoogenberg, R. P. F. Dullaart* 1031

Gestational Diabetes Mellitus in Teenage Pregnancy: a Case-control Study *T. T. Lao, L. F. Ho, K. L. Liu* 1036

No Deterioration in Insulin Sensitivity but Impairment of both Pancreatic β-cell Function and Glucose Sensitivity, in Japanese Women with Former Gestational Diabetes Mellitus *H. Sakamaki, H. Yamasaki, K. Matsumoto, K. Izumino, H. Kondo, Y. Sera, M. Ozaki, T. Abe, E. Kawasaki, H. Takino, Y. Yamaguchi, K. Eguchi* 1039

International Scene

Diabetes Mellitus in Egypt: Glycaemic Control and Microvascular and Neuropathic Complications *W. H. Herman, R. E. Aubert, M. M. Engelgau, T. J. Thompson, M. A. Ali, E. S. Sous, M. Hagazy, A. Badran, S. J. Kenny, E. W. Gunter, A. M. Malarcher, R. J. Brechner, S. F. Wetterhall, F. DeStefano, P. J. Smith, M. Habib, S. abd el Shakour, A. S. Ibrahim, el Moneim el Behairy* 1045

Glucose Intolerance and Associated Factors in the Fergana Valley, Uzbekistan *H. King, B. Abdullaev, S. Djumaeva, V. Nikitin, L. Ashworth, M. Gacic Dobo* .. 1052

Case Reports

Resolution of Lipohypertrophy Following Change of Short-acting Insulin to Insulin Lispro (Humalog®) *N. A. Roper, R. W. Bilous* 1063

A Case of Diabetic Muscle Infarction in Japan *M. Taira, I. Komiya, T. Taira, T. Arakawa, S. Hokama, Y. Nagasawa, N. Takasu* 1065

Author Index 1068

Keyword Index 1071

Volume Contents 1075

April 1998 — Suppl 1

Abstracts of scientific papers and posters presented at the British Diabetic Association's Medical and Scientific Section Spring Meeting (25–27 March 1998) held at the Heriot Watt University, Edinburgh

November 1998 — Suppl 2

Abstracts of papers and posters presented at the British Diabetic Association's Medical and Scientific Section Autumn Meeting and Education and Care Section Annual Meeting (7–9 October 1998) held at the Harrogate International Centre

November 1998 — Suppl 3

Preface

The Care of Diabetes *K. G. M. M. Alberti, D. P. Gray* S3

Conference Report

Primary Care Diabetes Conference, 1997: Delivering Sensitive Diabetes Care *M. S. Hall* S5

Editorials

A Primary-care-led Diabetes Service: Strengths, Weaknesses, Opportunities and Threats *T. Greenhalgh* S7

Contributing to Improved Health through New Knowledge: Primary Care Teams and the Unanswered Questions *A.-L. Kinmonth* S10

Reviews

Lost to Follow-up: the Problem of Defaulters from Diabetes Clinics *S. J. Griffin* S14

Doing Research in General Practice: Advice for the Uninitiated *M. Pierce* ... S25

The Metabolic Syndrome: Overeating, Inactivity, Poor Compliance or 'Dud' Advice? *J. R. Petrie, S. J. Cleland, M. Small* S29

Original Articles

Early Detection of Diabetic Retinopathy by a Mobile Retinal Photography Service Working in Partnership with Primary Health Care Teams *L. B. Bäcklund, P. V. Algvere, U. Rosenqvist* S32

The Implementation of Prompted Retinal Screening for Diabetic Eye Disease by Accredited Optometrists in an Inner-city District of North London: a Quality of Care Study *S. Burnett, B. Hurwitz, C. Davey, J. Ray, N. Chaturvedi, J. Salzmann, J. S. Yudkin* S38

Review

District Diabetes Registers: More Trouble Than They're Worth? *C. J. Elwyn, N. J. A. Vaughan, N. C. H. Stott* S44

Audit

Area-wide Diabetes Care: the Manchester Experience with Primary Health Care Teams 1991–1997 *S. Wells, I. Benett, G. Holloway, V. Harlow* S49

Area-wide Diabetes Care: the Lanarkshire Experience with Primary Health Care Teams 1994–1997 *T. Siann, E. M. Duncan, F. Sullivan, D. Matthews, D. T. Cromie* S54

Primary Care Diabetes in Practice

The Organization of Successful Diabetes Management in Primary Care *P. R. W. Tasker* S58

The At-risk Foot: the Role of the Primary Care Team in Achieving St Vincent Targets for Reducing Amputation *R. Gadsby, A. McInnes* S61

December 1998 — Suppl 4

Introduction

Forward *J. Roth* S3

Original Articles

Type 2 Diabetes Mellitus: The Grand Overview *R. E. Ratner* S4

Managing Diabetes: Lessons from Type 1 Diabetes Mellitus *P. E. Cryer* S8

Improving Glycaemic Control with Current Therapies *K. I. Birkeland* S13

What Works? Success Stories in Type 2 Diabetes Mellitus *S. B. Harris* S20

What Works? The Diabetes Care and Information Center *D. Lorber* S24

Repaglinide – Prandial Glucose Regulator: A New Class of Oral Antidiabetic Drugs *D. R. Owens* S28

Breaking the Barriers for Improved Glycaemic Control: Primary Care and Secondary Care Interface *R. Williams* S37

The Elderly Type 2 Diabetic Patient: Special Considerations *J. E. Morley* S41

Lowering the Risk of Visual Impairment and Blindness *J. Cunha-Vaz* S47

Preventing End-Stage Renal Disease *C. E. Mogensen* S51

Lowering the Risk of Neuropathy, Foot Ulcers and Amputations *A. J. M. Boulton* S57

Accelerated Complications in Type 2 Diabetes Mellitus: The Need for Greater Awareness and Earlier Detection *M. Muggeo* S60

The Postprandial State and Risk of Cardiovascular Disease *P. J. Lefèbvre, A. J. Scheen* S63

Reducing the Cardiovascular Consequences of Diabetes Mellitus *P. Passa* ... S69